

ABSTRACT

A pressure difference transducer includes a hydraulic body (1), in which is formed an overload chamber containing an overload membrane (13), which divides the overload chamber into a high-pressure chamber portion (20) and a low-pressure chamber portion (21); wherein the high-pressure chamber portion (20) communicates with a first hydraulic path (8, 10), which extends between a first diaphragm seal and a high-pressure side of a pressure measuring cell (12), and the low-pressure chamber portion (21) communicates with a second hydraulic path (9, 11), which extends between a second diaphragm seal and a low-pressure side of the pressure measuring cell; wherein the low-pressure chamber portion has an essentially convex membrane bed, against which the overload membrane lies in a rest position.